# RUN-TIME LIBRARY INSTALLATION AND IMPLEMENTATION GUIDE

## Version 2.1

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# Preface

During the course of software development, it is a natural practice to begin to package generic and often needed code into shareable routines.  We are certainly no exception to this phenomenon and have created over time a library of useful routines.

You will note some entry points as marked for deletion.  In cases where the Kernel has an equivalent call, we are phasing out our entry points in favor of theirs.  We will continue to support the old entry points for at least a year. In this release (Version 2.1), we will begin moving all routines under the RGUT* namespace for better consistency.  This too will be a gradual transition.

# Table of Contents

# Package Management

## *Name and Number Spaces*

The Run Time Library package does not contain files and the routine namespace is RGUT.  However, in this release of the runtime library, several routines have been renamed under the RGUT namespace.  The original routines are marked as obsolete and will be eliminated in a future release (no sooner than one year after the release date for this version).  The routines are:

RGCVTDT          Call $$^RGCVTDT replaced by $$ENTRY^RGUTDT; same arguments
RGCVTUU          Replaced by RGUTUU; same entry points
RGINIT*          Replaced by RGUTIN*
RGMSCALR         Replaced by RGUTALR; same entry points
RGMSCDAT         Replaced by RGUTDAT; same entry points
RGMSCDIC         Call $$^RGMSCDIC replaced by ENTRY^RGUTDIC; same arguments
RGMSCEDT         Replaced by RGUTEDT; same entry points
RGMSCIMP         Replaced by RGUTIMP; same entry points
RGMSCLK*         Replaced by RGUTLK*; same entry points
RGMSCMTL         Replaced by RGUTMTL; same entry points
RGMSCTSK         Replaced by RGUTTSK; same entry points
RGMSCUSR         Replaced by RGUTUSR; same entry points
RGXY             $$^RGXY replaced by $$XY^RGUT; same arguments
RGZOSF*          Replaced by RGUTOS*; same entry points except for
                 elimination of math functions.

## *External Relations*

There are no external relations.

## *Legal Requirements*

This package does not impose any additional legal requirements on the user.

## *Hardware Requirements*

Run Time Library is designed to run on standard or upgraded Alpha AXP clusters with Virtual Memory System (VMS) or on New Technology (NT) and Open M.

## *Space requirements*

Since Run Time Library V. 2.1 only consist of routines there are no system requirements.

## *Routine Mapping*

Routine mapping is not required for Run Time Library V. 2.1.

## *Journaling*

Journaling is not required for Run Time Library V. 2.1.

## *Installation Information*

### Time Estimates

| Process | Time |
|---|---|
| Run Time Library build | under 2 min. |

### File List

There are no files associated with Run Time Library V. 2.1.

### Routines

The routine lists are listed below.

| | | | | |
|---|---|---|---|---|
| RGCVTDT | RGCVTUU | RGINIT | RGMSCALR | RGMSCDAT |
| RGMSCDIC | RGMSCEDT | RGMSCIMP | RGMSCLKP | RGMSCMTL |
| RGMSCTSK | RGMSCUSR | RGUT | RGUTALR | RGUTBIG |
| RGUTDAT | RGUTDIC | RGUTDT | RGUTEDT | RGUTFTP |
| RGUTIMP | RGUTIN | RGUTIN0 | RGUTIN16 | RGUTIN18 |
| RGUTIN8 | RGUTLK2 | RGUTLKP | RGUTMTL | RGUTOS |
| RGUTOS1 | RGUTPRE | RGUTRPC | RGUTRRC | RGUTRRT |
| RGUTSRV | RGUTSTX | RGUTSTX0 | RGUTSTX1 | RGUTTSK |
| RGUTUSR | RGUTUU | RGXY | RGZOSF | |

# Installation

**Installation and testing in a test account prior to installation in the production account is recommended.**

1.  **Installation File**
    Be sure that you have received and have access to the KIDS installation file needed to install.

2.  **Set-up Environment variables**
    Sign into the account where the package is to be installed. Check that your DUZ is set to a valid user number and DUZ(0)=@ and U="^", along with the other environment variables.  This can be accomplished via D ^XUP.

3.  **Proceed with KIDS installation**
    From the KIDS Installation menu, select the Load A Distribution option to load the RGUT_2_1.KID file. Use the Verify Checksums In Transport Global to verify that all routines have the correct checksum. Then, choose the Install Package(s) option.

### 4.    Install Run Time Library V. 2.1

**Load**

```
Select Kernel Installation & Distribution System Option: Installation
Select Installation Option: Load a Distribution
Enter a Host File: RGUT_2_1.KID
KIDS Distribution saved on Feb 24, 1999@14:41:19
Comment:

This Distribution contains Transport Globals for the following Package(s):
   RUN TIME LIBRARY 2.1
Want to Continue with Load? YES// <RET>
Loading Distribution...

RUN TIME LIBRARY 2.1
Want to RUN the Environment Check Routine? YES// <RET>
   RUN TIME LIBRARY 2.1
Use INSTALL NAME: RUN TIME LIBRARY 2.1 to install this Distribution.
```

**Installation**

```
Select Kernel Installation & Distribution System Option: Installation

Select Installation Option: 6  Install Package(s)
Select INSTALL NAME:    RUN TIME LIBRARY 2.1
     Loaded from Distribution  3/23/99@10:24:59
  ==> BUILT ON 3/22/99  ;Created on Mar 22, 1999@08:59:31

This Distribution was loaded on Mar 23, 1999@10:24:59 with header of
BUILT ON 3/22/99  ;Created on Mar 22, 1999@08:59:31
It consisted of the following Install(s):
RUN TIME LIBRARY 2.1

     RUN TIME LIBRARY 2.1

Install Questions for RUN TIME LIBRARY 2.1


Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES// NO

Enter the Device you want to print the Install messages.
You can queue the install by enter a 'Q' at the device prompt.
Enter a '^' to abort the install.

DEVICE: HOME// <RET>;P-DEC  UCX/TELNET

 Install Started for RUN TIME LIBRARY 2.1 :
      Mar 23, 1999@10:40:57

 Installing Routines:.......................................................
      Mar 23, 1999@10:40:58

 Running Pre-Install Routine: EN^RGUTPRE.

 Running Post-Install Routine: ^RGUTIN.

Initialization completed for DSM for OpenVMS operating system.
```

```
Updating Routine file......

Updating KIDS files.......

RUN TIME LIBRARY 2.1 Installed.
      Mar 23, 1999@10:40:59.

Install Message sent #96372
```